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Landfill Project Submittal
Version 2.5
July 2009

Landfill Gas Capture/Combustion Project Submittal Form

Instructions: Please complete all fields as thoroughly as possible. If the project in question is still in the planning/ development phase, all fields must be completed using best available data and estimates based on the proposed system design. This is an interactive Word form. Upon completion, please save this form as a PDF prior to uploading it to the Reserve. This will lock your answers and protect the document from any further changes. All fields must be completed, even if the answer is also provided elsewhere; if a field is not applicable insert N/A in the space provided.

Section 1: Project Contact Information

Project Name: **City of Garland Landfill Carbon Project**

Project Developer: **Garland Power & Light**

Facility Owner: **City of Garland**

Technical Consultants: **GT Environmental Finance, LLC**

Other Parties with a Material Interest: **N/A**

Date of Form Completion: **11/4/2009**

Form Completed By (name, organization): **Tom Hancock, Garland Power & Light**

Section 2: General Project Site Information

1. Name of Landfill: **C. M. Hinton Jr. Regional Landfill**
2. Project Description (Please provide one to two paragraphs): **The landfill project at the C. M. Hinton Jr. Regional Landfill Project will destroy harmful methane gases. Primary development will be undertaken by the City of Garland [GP&L]. In addition, GT Environmental Finance, LLC will provide advisory and carbon market services.**
3. Project Site Address (including county and country): **3175 Elm Grove, Rowlett, TX 75089**
4. Owner of Landfill (name and organization): **City of Garland (1434 Commerce Street, Garland, TX 75040)**
5. Type of landfill (sanitary, controlled, or open dump): **Sanitary**
6. Type of waste accepted (MSW, demolition debris, organic, etc.): **MSW**



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7. Average annual quantity of waste accepted at landfill (cubic meters or tonnes): **383,048 MT**
8. Total waste in place (cubic meters or tonnes): **2,827,400 cubic meters**
9. Designed landfill capacity (cubic meters or tonnes): **32,864,008 cubic meters**
10. Year landfill opened: **February 2002**
11. Year landfill closed or estimated date of closure: **2050 (As per TCEQ 2008 Annual Report)**

Section 3: Project Eligibility and Monitoring

12. Project Start Date (Date project became operational; format MM/DD/YYYY): **6/10/2009**
13. Project Reporting Start Date (First date for which reductions will be reported on the Reserve; format: MM/DD/YYYY): **6/10/2009**
14. Have any vintage reduction tonnes from the project ever been registered with or claimed by another registry or program, or sold to another third party prior to registering with the Reserve? **No**

If the answer is yes, you must complete and return a "*Project Transfer*" form.

15. Is the landfill subject to NSPS Regulation? (greater than 2.5 million tonnes capacity)?

☒ YES ☐ NO

16. If applicable, date of most recent Tier I or Tier II NMOC test (format MM/DD/YYYY)? **2007**

- a. NMOC emissions per year (Mg/year): **15.6 Mg/yr**
- b. Date at which landfill did or is expected to exceed 50 Mg NMOC per year (format MM/DD/YYYY): **Estimated by 12/31/2017**

17. Description and citation of all local and state air and water quality, explosive gas, or other regulations pertinent to the landfill or project: **This landfill has currently satisfied all local, state, and federal law requirements. Please reference below.**



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**City of Garland Ordinance: TCEQ MSW Rules TAC 30, Chap 330, Chap 332, Chap 335:
Texas Pollutant Discharge Elimination System (TPDES) requirements: EPA SPCC
Regulations: 40 Code of Federal Regulations (CFR) (Air Regulations).**

18. Is this project being implemented and maintained as the result of any law, statute, regulation, court order, or other preexisting legally binding mandate?

☐ Yes ☒ No

If yes, please explain. **N/A**

19. Has a detailed monitoring plan been developed for this project? If not, what date will a monitoring plan be in place? **Yes**

20. What version of the Landfill Project Reporting Protocol is the project based upon? **2.1
(October 14, 2009)**

Section 4: Pre-project Information

21. Did the landfill ever collect and destroy landfill gas using a non-qualifying destruction device (e.g. passive flares)?

☐ YES ☒ NO

If yes:

a. What date was this system operational (MM/DD/YYYY): **N/A**

b. Please describe (number of wells, destruction devices, etc.): **N/A**

c. What deduction will be taken to account for this pre-project destruction? **N/A**

d. What is the landfill gas flow rate (in scfm) and methane content? **N/A**

22. Did the landfill ever collect and destroy landfill gas using a qualifying destruction device (e.g. candlestick flare, engine)?



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☐ YES ☒ NO

If yes:

- a. What date was this system operational (MM/DD/YYYY): N/A
- b. Please describe (number of wells, destruction devices, etc.): N/A
- c. What deduction will be taken to account for this pre-project destruction? N/A
- d. What is the landfill gas flow rate (in scfm) and methane content? N/A

Section 5: Landfill Gas Utilization Information for Project Activity

23. Landfill gas utilization (e.g., open-flared, enclosed flare, generation of electricity, use on-site as a boiler or furnace fuel, or sale to a third party): **Phase one will utilize an open flare for methane destruction. Phase two, if commercially viable, will utilize an engine to generate electricity.**

24. If designed to generate electricity:

- a. Type of engine-generator set (e.g., internal combustion engine, micro turbine or fuel cell with the name of the manufacturer, model, power output rating (kW or MJ) for biogas, and nominal voltage : **N/A**
- b. Pretreatment of landfill gas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc. with the names of manufacturers, models, etc.):

N/A

- c. Exhaust gas emission control (e.g., none, catalytic converter, etc.):

N/A

- d. If interconnected with an electric utility:

- i) Name of the utility: **N/A**



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ii) Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering): **N/A**

iii) If engine-generator set waste heat utilization:

iv) Heat source (e.g., cooling system or exhaust gas or both) and heat recovery capacity (Btu or kJ/hr): **N/A**

v) Waste heat utilization (e.g., water heating, space heating, etc.): **N/A**

25. If designed to use on-site as a boiler or furnace fuel, a description of the boiler or furnace and rated capacity (Btu or kJ/hr): **N/A**

26. If designed for biogas sale to a third party, a description of the methods of processing, transport, and end use: **N/A**

i) Pretreatment of Biogas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc.) include names of manufacturer, model etc.: **N/A**

ii) Exhaust gas emission controls from gas processing step: **N/A**

27. Provide a summary and citation of the permits obtained to build and operate this Landfill Gas Utilization System): **An Air Standard Permit and General Operating Permit were obtained to build and operate the Landfill Gas Utilization System.**

Additional information: **N/A**
